BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: ADDITIONAL DEVELOPMENTAL WORKS TO VIDYARANYAPURA INDOOR STADIUM NEW WARD NO-14

									Est. Cost. Rs.	**30000000.00**
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**	
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. complete with all lead and lift as per the direction of Engineer-In-Charge (PWD SR 2021-22 Vol -2 Pg 163 Item no 19.3)									
	Vidyaranyapura Indoor Stadium									
	Roof									
	In front of Toilets	Sqm	1	8.91	1.80		16.04			
		Sqm	1	9.89	0.98		9.69			
	Near Staircase	Sqm	1	6.86	1.50		10.29			
		Sqm	1	21.11	1.73		36.52			
	Basic rate							1858.00		
	Area weightage 10%							185.80		
	Total						**72.54**	**2043.80**		**148261.00**
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge. In cement mortar complete with all lead and lift as per the direction of Engineer-In-Charge (PWD SR 2021-22 Vol -2 Pg 163 Item no 19.7.3)									
	Vidyaranyapura Indoor Stadium									
	WALL									
	Near Staircase	Cum	1	29.02	0.23	3.60	24.03			
	Basic rate							369.00		
	Area weightage 10%							36.90		
	Total						**24.03**	**405.90**		**9754.00**
3	**Removing and refixing of footpath slab (Data Rate)**									
	Vidyaranyapura Basketball Court	Sqm	1	70.50	0.90		63.45			
		Sqm	1	29.10	0.75		21.83			
	Data rate							**235.00**		
	Total						**85.28**	**235.00**		**20040.00**
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg 5 item No. 1.4.1)									
	Vidyaranyapura Indoor Stadium									
	Footing for staircase	Cum	2	1.50	1.50	1.50	6.75			
	SSM near staircase	Cum	1	2.50	0.90	1.50	3.38			
	PlayGround Next to Raghavendra Swammy Temple									
		Cum	1	67.60	0.90	1.05	63.88			
	For Desilt									
	Vidyaranyapura Basketball Court	Cum	1	101.60	0.45	0.50	22.86			
	For Coble Stone									
	Vidyaranyapura Basketball Court	Sqm	1	57.00	1.00	0.20	11.40			
	For Eletric Pole									
	Vidyaranyapura Basketball Court	Cum	36	0.28		1.35	13.73			
				(3.14X0.6X0.6)/4=0.28						
	Throw Ball And VolleyBall Court Pole Concrete	Cum	4	0.30	0.30	0.30	0.11			

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							**186.00**	
	Area weightage 10%							**18.60**	
	Total						**122.11**	**204.60**	**24984.00**
5	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)								
	Vidyaranyapura Indoor Stadium								
	Footing for staircase	Cum	2	1.50	1.50	0.20	0.90		
	SSM near staircase	Cum	1	2.50	0.90	0.20	0.45		
	Basic rate							2561.00	
	Area weightage 10%							256.10	
	Total						**1.35**	**2817.10**	**3804.00**
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	Vidyaranyapura Indoor Stadium								
	Footing for staircase	Cum	2	1.50	1.50	0.15	0.68		
	SSM near staircase	Cum	1	2.50	0.90	0.15	0.34		
	PlayGround Next to Raghavendra Swammy Temple								
		Cum	1	67.60	0.90	0.15	9.13		
	For Coble Stone								
	Vidyaranyapura Basketball Court	Sqm	1	57.00	1.00	0.15	8.55		
	For Eletric Pole								
	Vidyaranyapura Basketball Court	Cum	36	0.28		0.15	1.53		
				(3.14X0.6X0.6)/4=0.28					
	Basic rate							**5554.00**	
	Area weightage 10%							**555.40**	
	Total						**20.21**	**6109.40**	**123499.00**
7	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (Vol 2/ P No-9/ I no- 5.4 of PWD SR 2021-22)								
	Vidyaranyapura Indoor Stadium								
	SSM near staircase	Cum	1	2.50	0.75	1.15	2.16		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Below Ground								
	PlayGround Next to Raghavendra Swammy Temple								
		Cum	1	67.60	0.75	0.90	45.63		
	Above Ground								
	PlayGround Next to Raghavendra Swammy								
		Cum	1	67.60	0.60	0.60	24.34		
	Deduction								
	Chain link Fencing	Cum	-23	0.60	0.60	0.60	-4.97		
	Basic rate							**5352.00**	
	Area weightage 10%							**535.20**	
	Total						**67.15**	**5887.20**	**395351.00**
8	Providing Flush/ Ruled pointing: Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 44 item No. 8.19.1)								
	PlayGround Next to Raghavendra Swammy								
		Sqm	2	67.60		0.60	81.12		
	Basic rate							199.00	
	Area weightage 10%							19.90	
	Total						**81.12**	**218.90**	**17758.00**
9	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	PlayGround Next to Raghavendra Swammy Temple								
	Throw Ball And VolleyBall	Cum	4	0.30	0.30	0.30	0.11		
	For Kho Kho Pole	Cum	2	0.30	0.30	0.30	0.05		
	Chain link Fencing	Cum	23	0.60	0.60	0.60	4.97		
	For Eletric Pole								
	Vidyaranyapura Basketball	Cum	36	0.28		1.20	12.21		
				(3.14X0.6X0.6)/4=0.28					
	Basic rate							5968.00	
	Area weightage 10%							596.80	
	Total						**17.34**	**6564.80**	**113823.00**
10	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)								
	Vidyaranyapura Indoor Stadium								
	Above SSM near staircase	Cum	1	2.50	0.75	0.15	0.28		
	Above wall near staircase	Cum	1	2.50	0.20	0.15	0.08		
	Copping Concrete								
	PlayGround Next to Raghavendra Swammy Temple								
		Cum	1	67.60	0.60	0.10	4.06		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							5880.00	
	Area weightage 10%							588.00	
	Total						**4.41**	**6468.00**	**28539.00**
11	Providing and fixing Structural Steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge (PWD SR 2021-22 Vol II Pg no 75 Item No 11.1)								
	For Vertical Pole								
	SHS 100X100X4mmth@16.98Kg/m								
		Kg	23.00	6.00		16.98	2343.24		
	For Horizontal Members								
	Pipe NB-32,D 42.4,4mm Th@3.79Kg/m								
	PlayGround Next to Raghavendra Swammy Temple								
		Kg	4	67.60		3.79	1024.82		
	Basic rate							91.00	
	Area weightage 10%							9.10	
	Total						**3368.06**	**100.10**	**337143.00**
12	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. (Made of G.I. wire of dia 4 mm) (PWD SR 2021-22 Vol II Pg no 95 Item No 11.58)								
	PlayGround Next to Raghavendra Swammy Temple								
		Sqm	1	67.60		6.00	405.60		
	Basic rate							676.00	
	Area weightage 10%							67.60	
	Total						**405.60**	**743.60**	**301605.00**
13	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (PWD SR 2021-22 Vol -II Pg 64 item no 9.31)								
	Vidyaranyapura Basketball Court	Sqm	1	57.00	1.00		**57.00**		
	Basic rate							1087.00	
	Area weightage 10%							108.70	
	Total						**57.00**	**1195.70**	**68155.00**
14	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces. MORTH Chapter 803 (PWD SR 2021-22 Vol III Pg no 56 Item No 8.10)								
	Kerb Painting	**Sqm**							
	Vidyaranyapura Basketball Court								
	For Basket Ball Court	Sqm	1	112.40		0.35	39.34		
	For Tennis Court	Sqm	1	124.40		0.35	43.54		
	For skating	Sqm	1	109.70		0.35	38.40		
	For Football	Sqm	1	284.60		0.35	99.61		
	Basic rate							85.00	
	Area weightage 10%							8.50	
	Total						**220.89**	**93.50**	**20653.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
15	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. complete with all lead and lift as per the direction of Engineer-In-Charge								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum	Qty Vide from Item No. 4				122.11		
	PCC	Cum	Qty Vide from Item No. 6				-1.01		
	Filling in foundation with granite / trap broken metal	Cum	From Item No. 5				-1.35		
	Footing	Cum	Qty Vide from Item No. 18				-1.94		
	Sub Total						117.81		
	Filling Qty						**4.30**		
	For wire		Qty Vide from Item No. 46				**255.60**		
	Basic rate							**204.00**	
	Area weightage 10%							**20.40**	
	Total						**259.90**	**224.40**	**58321.00**
16	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)								
	Excavated Earth	Cum					122.11		
	Filling Available of Excavated Earth						-4.30		
	Basic rate							118.00	
	Area weightage 10%							**11.80**	
	Total						**117.81**	**129.80**	**15292.00**
17	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
		t.Km		117.81		1.28	150.80		
	Basic rate							**12.00**	
	8Km 12*8							**96.00**	
	Area weightage 10%							**9.60**	
	Total						**150.80**	**105.60**	**15925.00**
18	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials,quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (PWD SR 2021-22 Vol -I Pg 15 item no 2.2.2.1)								
	Vidyaranyapura Indoor Stadium								
	Footing for staircase	Cum	2	1.50	1.50	0.40	1.80		
	Basic rate							5979.00	
	Add 8% For Shuttering							478.32	
	Sub total							**6457.32**	
	Area weightage 10%							**645.73**	
	Total						**1.80**	**7103.05**	**12786.00**
	Column upto Ground lvl	Cum	2	0.30	0.30	0.75	0.14		
	Basic rate							5979.00	
	Add 70% For Shuttering							4185.30	
	Sub total							**10164.30**	
	Area weightage 10%							**1016.43**	
	Total						**0.14**	**11180.73**	**1510.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
19	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates. (PWD SR 2021-22 Vol -I Pg 17 item no 2.5.2)								
	Vidyaranyapura Indoor Stadium								
	First Floor								
	Columns								
	Near Staircase	Cum	2	0.30	0.30	3.60	0.65		
	TT Area	Cum	4	0.40	0.23	3.60	1.32		
	Badminton Court	cum	4	0.45	0.45	3.60	2.92		
	Basic rate							6186.00	
	Add 70% For Shuttering							4330.20	
	sub total							10516.20	
	Add lift charges for First Floor							105.16	
	sub total							10621.36	
	Area weightage 10%							1062.14	
	Total						**4.89**	**11683.50**	**57119.00**
	Roof Beams								
	TT Area								
	B1	Cum	2	9.74	0.30	0.72	4.21		
	B2	Cum	1	10.40	0.30	0.11	0.34		
		Cum	1	9.74	0.30	0.11	0.32		
	Near Staircase	Cum	2	2.50	0.20	0.40	0.40		
	Badminton Court								
	B1	Cum	7	6.18	0.20	0.42	3.63		
	B2	Cum	2	20.40	0.20	0.57	4.65		
	Basic rate							6186.00	
	Add 60% For Shuttering							3711.60	
	sub total							9897.60	
	Add lift charges for First Floor							98.98	
	sub total							9996.58	
	Area weightage 10%							999.66	
	Total						**13.55**	**10996.23**	**148947.00**
	Roof Slab								
	Near Toilet	Cum	1	3.20	2.50	0.18	1.44		
	TT Area	Cum	1	10.40	9.74	0.18	18.23		
	Badminton Court	Cum	1	22.20	7.08	0.18	28.29		
	Basic rate							6186.00	
	Add 50% For Shuttering							3093.00	
	sub total							9279.00	
	Add lift charges for First Floor							92.79	
	sub total							9371.79	
	Area weightage 10%							937.18	
	Total						**47.96**	**10308.97**	**494470.00**
	Lintel								
	Cut Lintels	Cum	4	2.70	0.20	0.20	0.43		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							6186.00	
	Add 60% For Shuttering							3711.60	
	sub total							9897.60	
	Add lift charges for First Floor							98.98	
	sub total							9996.58	
	Area weightage 10%							999.66	
	Total						**0.43**	**10996.23**	**4751.00**
	Chajja								
	W	Cum	4	1.70	0.60	0.10	0.41		
	Basic rate							6186.00	
	Add 45% For Shuttering							2783.70	
	sub total							8969.70	
	Add lift charges for First Floor							89.70	
	sub total							9059.40	
	Area weightage 10%							905.94	
	Total						**0.41**	**9965.34**	**4066.00**
	Staircase								
	Waist Slab	Cum	2	3.75	1.20	0.20	1.80		
	Landing	Cum	1	3.70	1.20	0.20	0.89		
	Steps	Cum	24	1.20		0.02	0.65		
			Triangular area 0.5*0.15*0.3=0.023						
	Stairs beam	Cum	1	3.70	0.20	0.40	0.30		
	Basic rate							6186.00	
	Add 50% For Shuttering							3093.00	
	sub total							9279.00	
	Add lift charges for First Floor							92.79	
	sub total							9371.79	
	Area weightage 10%							937.18	
	Total						**3.63**	**10308.97**	**37443.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
20	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately). (PWD SR 2021-22 Vol -II Pg 84 item no 11.32)								
	Vidyaranyapura Indoor Stadium								
	Footing	Cum	Concrete Quantity				1.80		
		kg	Steel assumed 125 Kg/Cum of Concrete				225.00		
		tonne					**0.23**		
	Columns	Cum	Concrete Quantity				0.14		
		kg	Steel assumed 350 Kg/Cum of Concrete				47.25		
		tonne					**0.05**		
	Basic rate							92.00	
	Area weightage 10%							9.20	
	Total						**272.25**	**101.20**	**27552.00**
	First Floor								
	Column	Cum	Concrete Quantity				4.89		
		kg	Steel assumed 350 Kg/Cum of Concrete				1711.08		
		tonne					**1.71**		
	Staircase	Cum	Concrete Quantity				3.63		
		kg	Steel assumed 130 Kg/Cum of Concrete				472.16		
		tonne					**0.47**		
	Lintel	Cum	Concrete Quantity				0.43		
		kg	Steel assumed 100 Kg/Cum of Concrete				43.20		
		tonne					**0.04**		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Beam	Cum	Concrete Quantity				13.55		
		kg	Steel assumed 250 Kg/Cum of Concrete				3386.31		
		tonne					**3.39**		
	Roof Slab	Cum	Concrete Quantity				47.96		
		kg	Steel assumed 150 Kg/Cum of Concrete				7194.74		
		tonne					**7.19**		
	Chajja	Cum	Concrete Quantity				0.41		
		kg	Steel assumed 100 Kg/Cum of Concrete				40.80		
		tonne					**0.04**		
	Basic rate							92.00	
	Add lift charges for First Floor							0.92	
	sub total							92.92	
	Area weightage 10%							9.29	
	Total						**12848.30**	**102.21**	**1313251.00**
21	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol -II Pg17 item no 6.32)								
	Shakara Nagar Indoor Stadium								
	wall for RMV	Sqm	2	1.50		1.40	4.20		
		Sqm	1	1.20		0.45	0.54		
	Basic rate							**1196.00**	
	Area weightage 10%							**119.60**	
	Total						**4.74**	**1315.60**	**6236.00**
	Vidyaranyapura Indoor Stadium								
	First Floor								
	Near staircase	Sqm	1	2.50		1.80	4.50		
	TT Area	Sqm	1	10.40		3.00	31.20		
		Sqm	1	9.74		3.00	29.22		
		Sqm	1	9.74		2.70	26.30		
	Badminton Court	Sqm	1	31.11		2.85	88.66		
		Sqm	1	6.86		3.00	20.58		
	Deduction								
	W	Sqm	-4	1.80		1.50	-10.80		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic rate							1196.00	
	Add lift charges for First Floor							11.96	
	sub total							1207.96	
	Area weightage 10%							120.80	
	Total						**189.66**	**1328.76**	**252014.00**
22	Providing 20 mm cement plaster of mix :1:6 (1 cement: 6 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.(P.No.41, I.No.8.3.2 (Vol-2) of PW, P&IWTD SR 2021-22)								
	Shakara Nagar Indoor Stadium								
	Plastering for RMV Wall								
		Sqm	4	1.50		1.40	8.40		
		Sqm	2	1.50		0.22	0.66		
		Sqm	2	1.40		0.22	0.62		
	Basic rate							276.00	
	Area weightage 10%							27.60	
	Total					**Total Qty**	**9.68**	**303.60**	**2938.00**
23	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates. (P.No.17, I.No.2.5.1 Volume-1, of PWD, P&IWTD SR 2021-22)								
	Shakara Nagar Indoor Stadium								
	sump coping	Cum	1	10.68	2.85	0.10	3.04		
	Deductions								
	pillers	Cum	-4	0.20	0.20	0.10	-0.02		
	Ramp Concrete	Cum	1	6.53	2.72	0.30	5.33		
	Ramp edge	Cum	1	2.80	0.20	0.15	0.08		
	Basic rate							**6182.00**	
	Area weightage 10%							**618.20**	
	Total						**8.44**	**6800.20**	**57378.00**
24	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 42 item no 8.9)								
	External Plastering								
	Vidyaranyapura Indoor Stadium								
	Ground Floor								
	Near staircase	Sqm	2	2.50		1.80	9.00		
		Sqm	1	1.80	0.20		0.36		
	Column	Sqm	8	0.30		3.60	8.64		
	Staircase	Sqm	2	3.75	1.20		9.00		
		Sqm	24	1.20		0.02	0.65		
			Triangular area 0.5*0.15*0.3=0.023						
	Basic rate							322.00	
	Area weightage 10%							32.20	
	Total						**27.65**	**354.20**	**9793.00**
	First Floor								
	Vidyaranyapura Indoor Stadium								
	TT Area	Sqm	1	10.40		3.60	37.44		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Sqm	1	9.74		3.60	35.06		
	Badminton Court	Sqm	1	31.11		2.85	88.66		
		Sqm	1	6.86		3.00	20.58		
	Deduction								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	W	Sqm	-4	1.80		1.50	-10.80		
	Basic rate							322.00	
	Add lift charges for First Floor							3.22	
	sub total							325.22	
	Area weightage 10%							32.52	
	Total						**170.95**	**357.74**	**61156.00**
25	Providing 12 mm cement plaster with Cement mortar 1:3 (1cement: 3 coarse sand) finished with a floating coat of neat cement to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge(PWD SR 2021-22 Vol -II Pg 42 item no 8.6.1)								
	Internal Plastering								
	Vidyaranyapura Indoor Stadium								
	First Floor								
	TT Area	Sqm	1	10.40		3.60	37.44		
		Sqm	2	9.74		3.60	70.13		
	Beams	Sqm	3	9.74		0.72	21.04		
		Sqm	3	9.74	0.30		8.77		
		Sqm	1	10.40		0.11	1.12		
		Sqm	1	10.40	0.30		3.12		
		Sqm	1	9.74		0.11	1.05		
		Sqm	1	9.74	0.30		2.92		
	Celing	Sqm	1	10.40	9.74		101.30		
	Badminton Court	Sqm	1	31.11		3.60	112.00		
		Sqm	1	6.86		3.60	24.70		
	Column	Sqm	8	1.80		3.60	51.84		
	Beams	Sqm	14	6.18		0.42	36.34		
		Sqm	4	20.40		0.57	46.51		
	Celing	Sqm	1	22.20	7.08		157.18		
	W	Sqm	-4	1.80		1.50	-10.80		
	Basic rate							274.00	
	Add lift charges for First Floor							2.74	
	sub total							276.74	
	Area weightage 10%							27.67	
	Total						**664.64**	**304.41**	**202327.00**
26	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. (PWD SR 2021-22 Vol -II Pg 50 item no 8.51)								
	First Floor								
	Vidyaranyapura Indoor Stadium								
	for Internal plastered portions	Sqm	Same as Internal plastering				664.64		
	Basic rate							83.00	
	Add lift charges for First Floor							0.83	
	sub total							83.83	
	Area weightage 10%							8.38	
	Total						**664.64**	**92.21**	**61289.00**
27	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 48 item no 8.41)								
	First Floor								
	Vidyaranyapura Indoor Stadium								
	Internal painting	Sqm	Same as Internal plastering				664.64		
	Basic rate							130.00	
	Add lift charges for First Floor							1.30	
	sub total							131.30	

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Area weightage 10%							13.13	
	Total						**664.64**	**144.43**	**95995.00**
28	Finishing walls with textured exterior paint of required shade :New work (Two coats applied @ 3.28 ltr/10 m²) over and including priming coat of exterior primer applied @ 2.20kg/10 m² to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 49 item no 8.29)								
	External painting								
	Vidyaranyapura Indoor Stadium								
	First Floor	Sqm	Same as External plastering				170.95		
	Basic Rate							208.00	
	Add lift charges for First Floor							2.08	
	sub total							210.08	
	Area weightage 10%							21.01	
	Total						**170.95**	**231.09**	**39504.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
29	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per direction of Engineer incharge.(PWD SR 2021-22 Vol -II Pg 59 item no 9.2)								
	First Floor								
	Vidyaranyapura Indoor Stadium								
	TT Area	Sqm	1	10.40	9.74		101.30		
	Badminton Court	Sqm	1	22.20	7.08		157.18		
	Basic rate							705.00	
	Add lift charges for First Floor							7.05	
	sub total							712.05	
	Area weightage 10%							71.21	
	Total						**258.47**	**783.26**	**202450.00**
30	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : ** Flamed finish granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent (Vol 2/ P No-63/ I no - 9.23 of PWD SR 2021-22)								
	Vidyaranyapura Indoor Stadium								
	Staircase								
	Landing	Sqm	1	3.60	1.20		4.32		
	Treads	Sqm	24	1.20	0.30		8.64		
	Rise	Sqm	23	12.00		0.15	41.40		
		Sqm	1	3.20	2.50		8.00		
	Basic rate							1888.00	
	Area weightage 10%							188.80	
	Total						**62.36**	**2076.80**	**129510.00**
31	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete.(PWD SR 2021-22 Vol -II Pg 60 item no 9.12.2)								
	Vidyaranyapura Indoor Stadium								
	First Floor								
	TT Area	Sqm	1	10.40	9.74		101.30		
	Basic rate							1087.00	
	Add lift charges for First Floor							10.87	
	sub total							1097.87	
	Area weightage 10%							109.79	
	Total						**101.30**	**1207.66**	**122331.00**
32	Providing Venyl flooring of approved quality and make, fixed on the top of existing flooring fixed with suitable adhesive, including cutting to the requied size and fixing etc., complete Iicluding cost of all materials, mortar, labour, curing etc., complete as per specification.(Page No. 114, Item No. - 14.72 Volume-1, PW;P&IWTD S.R 2018-19)								
	Vidyaranyapura Indoor Stadium								
	Badminton Court	Sqm	1	22.20	7.08		157.18		
	Basic rate							560.00	
	Add lift charges for First Floor							5.60	
	sub total							565.60	
	Area weightage 10%							56.56	
	Total						**157.18**	**622.16**	**97789.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
33	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications. (PWD SR 2021-22 Vol -II Pg 105 item no 12.51)								
	Vidyaranyapura Indoor Stadium								
	D	Nos	1				1.00		
	Basic rate							1481.00	
	Add lift charges for First Floor							14.81	
	sub total							1495.81	
	Area weightage 10%							149.58	
	Total						**1.00**	**1645.39**	**1646.00**
34	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, usage charges complete as per specification .(PWD SR 2021-22 Vol -II Pg 99 item no 12.11)								
	Vidyaranyapura Indoor Stadium								
	D	Cum	1	6.00	0.15	0.13	0.11		
	Basic rate							90393.00	
	Add lift charges for First Floor							903.93	
	sub total							91296.93	
	Area weightage 10%							9129.69	
	Total						**0.11**	**100426.62**	**11298.00**
35	Providing and fixing in position fully panelled Honne wood shutters for doors with , stiles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)(PWD SR 2021-22 Vol -II Pg 100 item no 12.17)								
	Vidyaranyapura Indoor Stadium								
	D	Sqm	1	1.20		2.40	2.88		
	Basic rate							4866.00	
	Add lift charges for First Floor							48.66	
	sub total							4914.66	
	Area weightage 10%							491.47	
	Total						**2.88**	**5406.13**	**15570.00**
36	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @0.75 ltr/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 46 item no 8.33.2)								
	Vidyaranyapura Indoor Stadium								
	D	Sqm	1	1.20		2.40	2.88		
	Basic rate							105.00	
	Add lift charges for First Floor							1.05	
	sub total							106.05	
	Area weightage 10%							10.61	
	Total						**2.88**	**116.66**	**336.00**
37	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.(PWD SR 2021-22 Vol -II Pg 85 item no 11.34B)								
	Vidyaranyapura Indoor Stadium								
	First Floor								
	W	kg	4			56.70	226.80		
				21kg per sqm 1.5*1.8*21=56.7					
	Basic Rate							143.00	
	Add lift charges for First Floor							1.43	
	sub total							144.43	

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Area weightage 10%							14.44	
	Total						**226.80**	**158.87**	**36033.00**
38	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). (PWD SR 2021-22 Vol -II Pg 112 item no 12.9)								
	Vidyaranyapura Indoor Stadium								
	First Floor								
	W	Sqm	4	1.50		1.80	10.80		
	Basic rate							7240.00	
	Add lift charges for Second Floor							72.40	
	sub total							7312.40	
	Area weightage 10%							731.24	
	Total						**10.80**	**8043.64**	**86872.00**
39	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.(PWD SR 2021-22 Vol -II Pg 47 item no 8.33.3)								
	Vidyaranyapura Indoor Stadium								
	For window	sqm	window qty				10.80		
	Vidyaranyapura Basketball Court								
	For Basket Ball Court	Sqm	1	31.30		1.95	61.04		
	For skating	Sqm	1	100.30		1.25	125.38		
	Basic rate							106.00	
	Area weightage 10%							10.60	
	Total						**197.21**	**116.60**	**22995.00**
40	Providing Venyl flooring of approved quality and make, fixed on the top of existing flooring fixed with suitable adhesive, including cutting to the requied size and fixing etc., complete Iicluding cost of all materials, mortar, labour, curing etc., complete as per specification.(Page No. 114, Item No. - 14.72 Volume-1, PW;P&IWTD S.R 2018-19)								
	Shakara Nagar Indoor Stadium								
	Gym Room	Sqm	1	20.22	13.44		271.76		
	Basic rate							**560.00**	
	Area weightage 8%							**44.80**	
	Total					**Total Qty**	**271.76**	**604.80**	**164359.00**
41	Providing and fixing Acoustic Veneer paneling, over the 50mm x 35mm sal wood frame work at spacing not exceeding 600mm c/c fixed to the wall filled with 50mm thick 32kg density glass wool and top covered out of 4mm thick approved quality Veneer, fixed over 19mm thick ply strips of 100mm to 200mm with a gap of 6mm to 10mm in between strips of approved brand, termite and water resistant, finished with melamine polish, complete including cost and conveyance of all materials, labour for all items of work, HOM complete as per specification (Pno.324, ItNo.39.2 PWP&IWTD SR 2018-19)								
	Shakara Nagar Indoor Stadium								
	Yoga Room stage								
		Sqm	1	4.62		2.13	9.84		
	Basic rate							**6310.00**	
	Area weightage 8%							**504.80**	
	Total						**9.84**	**6814.80**	**67062.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
42	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (PWD SR 2021-22 Vol -II Pg 83 item no 11.28)								
	Shakara Nagar Indoor Stadium								
	Skating Portioon								
	from Gate side Pillers		1	2.63		1.00	2.63		
			1	9.25		1.00	9.25		
			1	9.49		1.00	9.49		
			1	5.88		1.00	5.88		
					Sub Total		**27.25**		
	Consider 12kg/Sq mtr	Kg					**327.00**		
	Basic rate							**500.00**	
	Area weightage 10%							**50.00**	
	Total						**327.00**	**550.00**	**179850.00**
	Vidyaranyapura Indoor Stadium								
	First Floor								
	for Staircase	Sqm	2	3.80		1.20	9.12		
		Sqm	1	3.60		1.20	4.32		
		Sqm	2	2.50		1.20	6.00		
		Sqm	1	1.20		1.20	1.44		
		Sqm	1	3.20		1.20	3.84		
		Sqm	1	1.25		1.20	1.50		
						Total	26.22		
				Assume 12 kg per sqm					
		kg					314.64		
	Basic rate							500.00	
	Add lift charges for First Floor							5.00	
	sub total							505.00	
	Area weightage 10%							50.50	
	Total						**314.64**	**555.50**	**174783.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
43	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (PWD SR 2021-22 Vol -II Pg 133 item no 15.1)								
	Vidyaranyapura Indoor Stadium								
	TT Area	Sqm	1	10.40	9.74		101.30		
	Badminton Court	Sqm	1	22.20	7.08		157.18		
	Basic rate							745.00	
	Area weightage 10%							74.50	
	Total						**258.47**	**819.50**	**211818.00**
44	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (PWD SR 2021-22 Vol -II Pg 81 item no 11.16.3)								
	Vidyaranyapura Indoor Stadium								
	For Lighting	Kg	1	2040.82			2040.82		
	Basic rate							110.00	
	Area weightage 10%							11.00	
	Total						**2040.82**	**121.00**	**246939.00**
45	Providing and laying water proofing treatment to the Retaining wall area with PU Elastomeric Single component liquid applied, cold applied, moisture cured high tensile elastomeric PU waterproofing membrane having elongation of more than 400% and having solid content of above 90% @ 1.6kg per m2 in 2 coats to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g/ m2. The cost is inclusive of surface preparation, crack filling, repair of loose mortar etc. completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (Vol - II P No-134 I no- 15.4 of PWD SR 2021-22)								
	Vidyaranyapura Basketball Court								
	Basketball Court	Sqm	1	31.80	22.80		**725.04**		
	Basic rate							797.00	
	Area weightage 10%							79.70	
	Total						**725.04**	**876.70**	**635643.00**
46	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & boning rods at every 100 mm whevere necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata. (Vol - I P No-10 I no- 1.17.1 of PWD SR 2021-22)								
	Vidyaranyapura Indoor Stadium								
		Cum	1	568.00	0.60	0.75	**255.60**		
	Basic rate							194.00	
	Area weightage 10%							19.40	
	Total						**255.60**	**213.40**	**54546.00**
47	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25 mm dia 2 mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary (Page No. 1, Sl No. 1.2.2 of ELE S.R 2021-22).								
	Shakara Nagar Indoor Stadium								
	Outside Light Purpose North to south side	Mtr	1	16.25			16.25		
	Down to light connection	Mtr	3	1.40			4.20		
	From Yoga Room to Light	Mtr	2	5.00			10.00		
	From South to North	Mtr	1	29.30			29.30		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Down to light connection	Mtr	5	1.40			7.00		
	For Light Connction	Mtr	2	1.80			3.60		
	Total						**70.35**	**70.00**	**4925.00**
48	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 1.5Sqmm. (Page No. 3, Sl No. 2.3.2 of ELE S.R 2021-22).								
	Shakara Nagar Indoor Stadium								
	Outside Light Purpose North to south side	Mtr	1	16.25			16.25		
	From Yoga Room to Light	Mtr	2	5.00			10.00		
	From South to North	Mtr	1	29.30			29.30		
	For Light Connction	Mtr	2	1.80			3.60		
	Total						**59.15**	**26.00**	**1538.00**
49	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure								
	Shakara Nagar Indoor Stadium								
	Outside Light Purpose North to south side	Each	4				4.00		
	From South to North	Each	4				4.00		
	Total						**8.00**	**19127.00**	**153016.00**
50	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency> 1301m/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL / CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark / name shall be Engraved / Embossing on the die cast housing / Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/.(Page No. 37, Sl No. 11.9.3 of ELE S.R 2021-22).								
	outside pole	Each	5				5.00		
	Total						**5.00**	**9563.00**	**47815.00**
51	Fabrication, Supplying, Erection, Testing and Commissioning of ..... ms long Polygon high mast with Single/Multiple telescopic sections having, (minimum overlap distance of 1.5 times of top section) thickness as per BSEN 10025 grades 355 JO/ASTM A572-50 steel sheet plate for shaft suitable to withstand a wind velocity of 47 m/s as per IS 875 part 3(as per GA Drawing). Base plate as per IS 2062/ASTM A572-50. The mast shall be Galvanized in single Hot-dip as per BSEN ISO 1461/ASTM A123 with an average 70 microns as per IS 2629, and welded as per BS 5135 Single L-Seam joint The mast shall have 2 Way head frame with die cast LM-6 pulleys, stainless steel axle, Phosphorus Bronze bearing bush press-fitted with separate guides for 2 runs of 5 mm dia, stainless steel wire rope of AISI 304grade 7/19-core, (Factor of Safety as per TR no-7). 2.5 mm2 EPR insulated PCP sheathed trailing power cable housed inside the bottom shaft of mast with door having locking arrangement The mast shall have manual/power tool (Suitable reversible geared motor operating on 230/415V, 50Hz, shall be provide above 15 Mtr mast) The mast shall have lantern of 2 segments, suitable dia with max load carrying capacity as per IS 1239. The mast shall be erected on existing RCC footing. The mast shall be supplied with 3 mm thick template, lightning arrester of 1.2m length galvanized pipe with top arrow fitted on top of the head frame cover and GLS type aviation twin l A fitting with wiring complete. (excluding foundation) as per technical data.12 m/12.5 m - Top 100 mm and Bottom 310 mm dia (PWD SR 2022-23 Vol VI Pg no 8 Item No 4.5.1)								
	Vidyaranyapura Basketball Court								
	For Basket Ball Court	Each	6				6.00		
	For Tennis Court	Each	6				6.00		
	For skating	Each	6				6.00		
	For Football	Each	18				18.00		
	Total						36.00	116177.00	**4182372.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
52	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Floodlight 240W (PWD SR 2022-23 Vol VI Pg no 37 Item No 11.9.7)								
	Vidyaranyapura Basketball Court								
	For Basket Ball Court	Each	12				12.00		
	For Tennis Court	Each	12				12.00		
	For skating	Each	12				12.00		
	For Football	Each	36				36.00		
	Total						72.00	19996.00	**1439712.00**
53	Supplying of 1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 25 Sqmm, 3.5 Core, (12 GI Strips - 4 x 0.8 mm)								
	Vidyaranyapura Indoor Stadium	KM	1	1.00			1.00		
	Total						1.00	181452.00	**181452.00**
54	Compact RMU (VCB/SF6 Type) with Copper Busbar, 350 MVA, 630 Amps as per IEC62271/IS-3427 4 Way RMU, 2 OD + 2 VL (One Incomer + Two Breakers + One Outgoing) .(Page No. 11, Sl No. 39.02 of ELE BescomS.R 2021-22).								
	Shakara Nagar Indoor Stadium								
	outside pole	Each	1				1.00		
	Total						**1.00**	**780000.00**	**780000.00**
55	11 kV, 3 Core, XPLE HTUG Cable with pressure extruded inner sheeth, ROUND WIRE ARMOURED as per IS-7098 (Part-2) Armouring wires dia and Resistivity as per IS-3975 95 Sqmm, (54 GI Wires - 2.5 mm Dia).(Page No. 10, Sl No. 268 of ELE C S.R 2021-22).								
	Shakara Nagar Indoor Stadium								
	Rmv Connection	**Mtr**	1	35.00			35.00		
		Km					0.04		
	Total						**0.04**	**1115615.00**	**39047.00**
56	60W highbay LED linear type light fixture make-crompton ,model -LHBL60CDL (Data Rate to be Approved)								
	Vidyaranyapura Indoor Stadium								
	badminton Court	Each	80				80.00		
	Total						80.00	8000.00	**640000.00**
57	Executive Bench-Made out of Sadarahalli grey granite stone with hand supports with 3 line finishing with arch/plain design with 100mm slabs height 90x Length 1500 width 45cms (1.50*0.45*0.90m) (Including lead and lift Charges) (inclusive of all taxes) As per the directon of Engineer Incharge. (Data approved rate)								
	Vidyaranyapura Basketball Court								
	benches	Nos	19				19.00		
	Data Rate							**18200.00**	
	Total						**19.00**	**18200.00**	**345800.00**
58	Providing and Fixing Volleyball and Throw Ball Court Poles. The Rates including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved) .								
	Raghavendra Swamy Temple Playground								
	Volley Ball Court	Nos	2				2.00		
	Throw Ball Court	Nos	2				2.00		
	Market Rate							18880.00	
	Total						4.00	18880.00	**75520.00**
59	Providing and Fixing Volleyball Net The Rates including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved) .								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Raghavendra Swamy Temple Playground								
	Volley Ball Net	no	1				1.00		
	Market Rate							6442.80	
	Total						1.00	6442.80	**6443.00**
60	Providing and Fixing Throw Ball Net.The Rates including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved) .								
	Raghavendra Swamy Temple Playground								
	Throw Ball Net	no	1				1.00		
	Market Rate							6324.80	
	Total						1.00	6324.80	**6325.00**
61	Providing and Fixing Kho-Kho Wooden Pole. The Rates including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved) .								
	Raghavendra Swamy Temple Playground	No	2				2.00		
	Market Rate							5138.00	
	Total						2.00	5138.00	**10276.00**
62	Supply and Installation of Table Tennis Tables of Approved Brands like Stiga, Stag, Butterfly, Yasaka, Cornilleau or any Approved brand as per directions of the Engineer incharge. The Rates including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved) .								
	Vidyaranyapura Indoor Stadium	no	15				15.00		
	Market Rate							88972.00	
	Total						15.00	88972.00	**1334580.00**
63	Providing and constructing standard Rubber Flooring for indoor area using Rubber membrain of 12mm to 16mm thick to be layed over Prepared Cement Morter / concrete Surface using CM 1:6 beneath rubber membrain including cost o all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge of the work (Market rate to be approved)								
	Shakara Nagar Indoor Stadium								
	Ground Floor								
	Gym Room	Sqm	1	11.52		6.47	74.53		
	Karate room	Sqm	1	9.70		13.34	129.40		
	Vidyaranyapura Indoor Stadium								
	Badminton Court	Sqm	1	38.90	31.00		1205.90		
	Market Rate							**4842.00**	
	Total						**1409.83**	**4842.00**	**6826409.00**
64	Providing and Installing Rubber Column Safety Guard made of 50mm Leather with Soft Foam Rubber Cushioning inside with 12mm waterproof plywood including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved)								
	Column 1	Sqm	1	1.08		1.05	1.13		
	Column 2	Sqm	1	1.85		1.05	1.94		
	Column 3	Sqm	1	1.90		1.05	2.00		
	Column 4	Sqm	1	0.94		1.05	0.99		
	Column 5	Sqm	1	1.25		1.05	1.31		
	Column 6	Sqm	1	2.48		1.05	2.60		
	Column 7	Sqm	1	2.48		1.05	2.60		
	Column 8	Sqm	1	1.50		1.05	1.58		
	Column 9	Sqm	1	1.52		1.05	1.60		
	Column 10	Sqm	1	2.48		1.05	2.60		
	Column 11	Sqm	1	2.48		1.05	2.60		
	Column 12	Sqm	1	1.05		1.05	1.10		
	Market Rate							**6600.00**	
	Total						**22.06**	**6600.00**	**145600.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
65	Providing Aluminium name Board with using MS pipe for board safety and also LED Lighting with 3D Sign Letters, including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved)								
	Shakara Nagar Indoor Stadium								
	Top Led Name board	**Sqm**	1	4.88		1.20	5.85		
	Market Rate							**18000.00**	
	Total					**Total Qty**	**5.85**	**18000.00**	**105366.00**
66	Providing Aluminium name Board with 3D Sign Letters, including cost of all materials, labour, packing joints and mortar, finishing curing all lead and lift, transportation and also including all applicable taxes, etc., complete as per direction of Engineer in charge (Market rate to be approved)								
	Shakara Nagar Indoor Stadium								
	3d cutting name board	**Sqm**							
			1	3.66		1.20	4.39		
	Market Rate							**9500.00**	
	Total					**Total Qty**	**4.39**	**9500.00**	**41708.00**
67	Supply and Installation of approved Wooden Floor for Indoor Hall - Maple Flooring with PU Scaler and coat polish 20mm,thickness 60mm width 2000mm, third &better grade treated sleepers of size 30*60mm to be installed 30cm center to center 20mmm professional EPDM rubber pad inclusive of HOM, labour etc. asper the directions of Engineer in charge (Data Rate)								
	Vidyaranyapura Indoor Stadium								
	Wooden Court	Sqm	1	30.90	7.50		231.75		
	Data rate							15000.00	
	Total						**231.75**	**15000.00**	**3476250.00**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
								Total of Other Items including GST Unit Rate	**13014277.00**
								Total of PWD SR 2021-22 Items	**13885139.00**
								GST Charges (18% of estimated cost)	**2499326.00**
								Sub Total	**29398742.00**
								Preparation of DPR and Architectural ,Structural Consultation fee(1% of estimated cost)	**300000.00**
								Project management Consultancy Charges(1% of estimated cost)	**300000.00**
								Miscellaneous and Rounding off	**1258.00**
								Grand Total	**30000000.00**
								RUPEES THREE CRORE	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum.

4) The estimate is based on, PWD SR 2018-19, 2021-22 and Data rates, PWD Electrical 2018-19, 2021-22, approved Rate, Issused Rates and Corrigendum 1, 2 & 3.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
								Total of Other Items including GST Unit Rate	13014277.00
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								Miscellaneous and Rounding off	1258.00
								Grand Total	30000000.00
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Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Technical Sanction
Accorded For Rs 300 Lakhs only
Head of A/C 123812
CER NO : 20 Dt: 03/23

RUDRAPRASAD CONSULTANTS
BANGALORE

Administrative Approval
Accorded For Rs. 300.00 Lakhs Only
Head of A/C P-3812
CER NO 25 Dt: 29/03/2023

A.E. (Project)